

obtained by deacetylating chitin as the natural polymer contained in the carapace of the crab or lobster, Ag(sup +), Cu(sup 2+) and Zn(sup 2+) are traditionally known as the antibacterial metal ion of the bead, and the compound is practically used as an antibacterial plastic.

1/5/4

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03439413

CONTACT LENS

PUB. NO.:

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INVENTOR(s): KANBE SADA0

APPLICANT(s): SEIKO EPSON CORP [000236] (A Japanese Company or Corporation)

, JP (Japan)

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INTL CLASS: [5] G02C-007/04

JAPIO CLASS: 29.2 (PRECISION INSTRUMENTS -- Optical Equipment); 14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds);

28.2

(SANITATION -- Medical)

JOURNAL: Section: P, Section No. 1231, Vol. 15, No. 296, Pg. 49, July

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#### ABSTRACT

PURPOSE: To prevent the propagation of bacteria and to improve wettability as well as to allow long-term use by forming a resin film containing a chitin derivative on at least the recessed surface side of a lens base body.

CONSTITUTION: The resin film 2 containing the chitin derivative is formed on a base body 1 for a concave lens. A base material having high oxygen transmittance is used for the base body 1 and a hydrophilic polymer used for the resin film 2 is preferable and is exemplified by, for example, polymers consisting of 2-hydroxyethyl methacrylate, N-vinyl pyrrolidone, N-dimethyl acrylamide, etc., as raw materials. The chitin derivative is exemplified by N-acetyl chitosan, N-acyl derivative, O-acyl derivative, etc. The long-term wearing is enabled by the base material having the

high  
oxygen transmittance in this way and the antifungal property  
and  
wettability are improved by the chitin derivative

1/5/5  
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02967624  
CLEANER FOR CONTACT LENS

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PUBLISHED: October 23, 1989 (19891023)  
INVENTOR(s): SHIMAI YOSHIYUKI  
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APPLICANT(s): PIAS ARISE KK [470558] (A Japanese Company or  
Corporation),  
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(ORGANIC CHEMISTRY -- High Polymer Molecular Compounds);  
14.6  
(ORGANIC CHEMISTRY -- Liquid Fuel, Oils & Fats)  
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#### ABSTRACT

PURPOSE: To provide an exceptionally high effect of removing the  
mold  
sticking to a lens by incorporating specific enzyme into the cleaner.

CONSTITUTION: The mold and bacteria stick to the soft contact  
lens  
consisting of a synthetic resin and, therefore, at least one enzyme  
among  
chitinase, chitosanase or .beta.-1, 3-glucanase is incorporated into  
the  
cleaner for said lens. The chitin, chitosan or .beta.-1, 3-glucan  
is  
generally contained in the cell walls of the mold generated on the lens  
and  
is directly decomposed by any of the above-mentioned enzymes, by which  
the  
cell walls are separated and the mold sticking to the lens is  
directly  
removed. The effect of removing the mold is, therefore, high.

1/5/6  
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